

Application No. 10/587,741
Paper Dated: May 4, 2010
In Reply to USPTO Correspondence Dated February 4, 2010
Attorney Docket No. 5503-061852

AMENDMENTS TO THE DRAWINGS

The attached sheets of drawings include changes to Figs. 1-7. These sheets replace originally filed Figs. 1-7. Changes incorporated in these sheets are highlighted on the attached annotated sheets.

Attachment: Replacement Sheets
Annotated Sheets Showing Changes

REMARKS

Claims 1-26 have been cancelled and new claims 27-33 have been added. No new subject matter has been added with these claims.

In paragraph No. 2 of the Office Action, the Examiner objects to the drawings indicating they are incomplete. The schematics illustrated in Figs 1-6 represent a portion of a thermodynamic cycle and it is within this area that the improvement resides. Figs. 1-6 have been modified to include arrows illustrating the direction of flow to assist in better understanding these figures. Additionally, to assist in better understanding of the figures, the text representing item No. 5 in the Specification has been changed from a condenser to a compressor.

In paragraph No. 3 of the Office Action, the Examiner indicates that the disclosure is objected to under 37 C.F.R. §1.71 as being so incomprehensible as to preclude a reasonable search of the prior art by the Examiner. The Applicant is providing with this response, two copies of a substitute Specification, which includes rewording and clarification of the Specification such that it is now believed to be more clearly presented. The first copy includes revision marks to highlight the changes and the second copy is a clean version incorporating these changes without the use of revision marks. No new matter has been added to the Specification by this Amendment. Note that item No. (5) has been changed from condenser to compressor. This change is apparent from inspection of the figures, which illustrate a standard symbol for a compressor associated with item No. 5.

In paragraph No. 7 of the Office Action, the Examiner objects to claims 1-13 and 22-26, citing a number of informalities. As previously stated, claims 1-13 and 22-26 have been cancelled and new claims 27-33 have been introduced. These new claims do not include any of the objectionable terms cited by the Examiner in paragraph No. 7.

In paragraph No. 9 of the Office Action, the Examiner objects to claims 1-13 and 22-26 under 35 U.S.C. §112, first paragraph, for failing to comply with the enablement requirement. As previously stated, claims 1-13 and 22-26 have been cancelled and replaced with claims 27-33, which are believed to satisfy the enablement requirement.

In paragraph No. 11 of the Office Action, the Examiner rejects claims 1-13 and 22-26 under 35 U.S.C. §112, second paragraph, as being indefinite. Once again, claims 1-13 and 22-26 have been cancelled and new claims 27-33 have been added and these claims

are believed to be definite.

In paragraph No. 13 of the Office Action, the Examiner rejects claims 1-13 and 22-26 under 35 U.S.C. §102 (b) as being anticipated by the teaching of United States Patent No. 6, 216, 481 to Kantchev (hereinafter the "Kantchev patent"). The Kantchev patent is directed to a refrigerating system with heat reclaim and with floating condensing pressure.

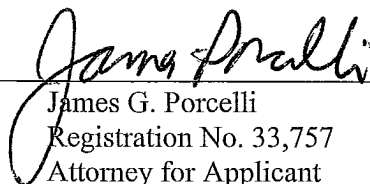
New claims 27-33 have been amended to specify a heat exchanger (4) in the refrigerant line leading to the injection valve (6). The refrigerant passing through the primary side of the heat exchanger (4) is kept on a constant temperature by exchanging heat with the secondary medium (e.g. a brine) which flows through the secondary side of the heat exchanger (4). This arrangement is readily disclosed especially in Fig. 2 of the application.

The Kantchev patent, on the other hand, does not disclose a heat exchanger just upstream of the injection valve to exchange heat between the (liquid) refrigerant to be injected and a secondary medium which just has left the evaporator of the refrigeration circuit. As a result, the Kantchev patent neither discloses nor suggests the features described in claims 27-33.

Examination and allowance of claims 27-33 are respectfully requested.

Respectfully submitted,
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